

Analysis of Food Wrap Films Using Double-Shot Pyrolyzer[®] Part 2: Analysis of Polypropylene (PP) + Nylon by EGA GC/MS Technique

Polypropylene (PP) + Nylon food wrap films were analyzed using EGA-GC/MS technique. Fig. 1 shows an EGA profile obtained by programmed pyrolysis from 40~600°C at 30°C/min. Fig. 2 shows results of GC/MS analysis of temperature zones A (100~320°C), and B (320~600°C) employing MicroJet Cryo-Trap (MJT-1030E). In Zone A, volatile acetic acid, and fatty acids and their derivatives as plasticizer were found. In Zone B, olefinic hydrocarbons of C₆, C₉, C₁₂, and C₁₅ derived from pyrolysis of polypropylene, and ε -caprolactam, monomer of nylon-6, were found.



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